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Notice of Allowability	Application No.	Applicant(s)	
	10/074,493	LEDENTSOV ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Cornelius H. Jackson	2828	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to the Amendment filed 31 January 2005.			
2. The allowed claim(s) is/are <u>1-14,16-73,85-89,93-95 and 97.</u>			
3. The drawings filed on 31 January 2005 are accepted by the Examiner.			
 3. ★ The drawings filed on 31 January 2009 are accepted by the Examiner. 4. ★ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ★ All b) ★ Some* c) ★ None of the: 1. ★ Certified copies of the priority documents have been received. 2. ★ Certified copies of the priority documents have been received in Application No. ★ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: ★ Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ★ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. ★ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ★ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ★ hereto or 2) ★ Depor No./Mail Date ★ Intelligible of the Attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ★ Intelligible of the Attached Examiner's Amendment of the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. ★ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 			
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9/24/04; 1/31/05 & 4/14/05 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Meghan Van Leeuwen on 15 April 2005.

The application has been amended as follows:

- 1. (Currently Amended) A semiconductor laser comprising:
 - a) a bottom reflector;
 - b) a top reflector;
 - c) a cavity located between the bottom reflector and the top reflector; and
 - d) an active region that emits light;

wherein the semiconductor laser is operated in at least one resonant optical mode, such that:

- i) light is emitted from the active region;
- ii) light in the resonant optical mode propagates in the cavity in a direction tilted with respect to both a direction normal to a lateral plane and the lateral plane itself;

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iii) the resonant optical mode has minimum optical losses compared with optical losses of the other optical modes; and

- iv) a wavelength and a tilt angle of propagation of the light is stabilized.
- 91. (Cancelled)
- 92. (Cancelled)
- 96. (Cancelled)

Allowable Subject Matter

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2. Claims 1-14, 16-73, 85-89, 93-95 and 97 are allowed.

The following is an examiner's statement of reasons for allowance: Prior art fails to teach the semiconductor laser as claimed wherein the semiconductor laser is operated in at least one resonant optical mode, such that: light in the resonant optical mode propagates in the cavity in a direction tilted with respect to both a direction normal to a lateral plane and the lateral plane itself; the resonant optical mode has minimum optical losses compared with optical losses of the other optical modes; and a wavelength and a tilt angle of propagation of the light is stabilized, see Applicant's arguments, filed 31 January 2005, page 22, last paragraph through page 23, first full paragraph.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cornelius H. Jackson whose telephone number is (571)272-1942. The examiner can normally be reached on 8:00 - 5:00, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MinSun Harvey can be reached on (571)272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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